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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/721,151	
	Filing Date	11/24/2003	
	First Named Inventor	Roger A. Pyle, et al.	
	Art Unit		
	Examiner Name		
Total Number of Pages in This Submission	6	Attorney Docket Number	109788.0008

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Examiner Name	
Attorney Docket Number	109788.0008

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Sheet 1 of 5

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		6,477,783		Harman, et al.		
		5,456,118		Hines, et al.		
		5,606,133		Hines, et al.		
		5,824,913		Pyle		
		5,817,946		Brovold		
		6,026,692		Brovold		
		5,323,655		Eagan, et al.		
		5,939,642		King, et al.		
		3,461,717		Dunlap, et al.		
		5,275,056		Hamilton, et al.		
		2,972,249		McRae, et al.		
		4,942,768		McRae		
		3,478,572		McRae		
		5,036,709		McRae		
		5,911,164		McRae		
		6,205,864		Vialletel, et al.		
		4,794,799		Paakkinen		
		4,930,346		Paakkinen, et al.		
		5,698,789		Lainio, et al.		
		4,087,918		Schmid, et al.		

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11/24/2003

Roger A. Pyle, et al.

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	✓	TEST QUIP, "Operating Instructions for the Dynamic Angle Validation Kit (DAV) for Superpave Gyratory Compactors", TestQuip Model DAV1, pgs. 1-40.	
	✓	DALTON, FRANK, "Gyratory Compaction, The Significance of the Internal Angle of Gyration", pgs. 1-45.	
		"TRB Superpave Mixture & Aggregate Expert Task Group", 04/04/2001, pgs. 1-13.	
	✓	NCAT, "Evaluation of the Superpave Gyratory Compactor's Internal Gyration Angle in Alabama", pgs. 1-31.	
	✓	PINE INSTRUMENT, "Investigation of FHWA SGC AVK #3 Guide Rod Play", 09/27/2000, pgs. 1-8.	
	✓	"Pressure Response Indicator HM-855", Last viewed on 10/17/2003, pg. 1, Gilson Company, Inc., http://www.globalgilson.com/sections/product/index.asp?pr_id=14171 .	
	✓	GULER, MURAT, et al., "Development of a Device for Measuring Shear Resistance of HMA in the Gyratory Compactor", pgs. 1-24, Paper No. 00-1318, The Asphalt Research Group.	
	✓	"Gyratory Asphalt Mixture Design Gyratory Compactor Calibration", 04/04/2001, pgs. 1-2.	
	✓	"Raw Data from Recent Field Trials Using the Superpave Gyratory Compactor Dynamic Angle Validator (DAV), prepared for the Superpave ETG Meeting, Tempe, Arizona, April 2-4, 2001.	
	✓	"Report 2001-01 Application of Internal Angle Verification to Obtain Equivalent Results from Various SGC Models, Pine Instrument Company, 08/23/2001, pgs. 1-9.	
	✓	"Report 2000-03 Investigation of Pine Superpave Gyratory Compactors Using the FHWA Angle Validation Kit", Pine Instrument Company, 12/29/2000, pgs. 1-9.	

Examiner Signature		Date Considered	
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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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	✓	"Report 2000-02 Observations of SGC End Plate Deflection Using the FHWA Angle Validation Kit", Pine Instrument Company, 10/11/2000, pgs. 1-11.	
	✓	AL-KHATEEB, GHAZI, et al., "Target and Tolerance Study for the Angle of Gyration used in the Superpave Gyratory Compactor (SGC)", http://www.tfhrcc.gov/pavement/asphalt/labs/mixtures/target.htm , 08/22/2002, pgs. 1-16.	
	✓	Superpave Gyratory Validation Kit Manufacturer's Meeting, 08/31, pgs. 1-7.	
	✓	"Consideration of Mold Temperature When Measuring the Angle of Gyration on the Troxler Model 4140", October 2001, pgs. 1-6.	
	✓	"Measuring the Angle of Gyration on the Troxler Superpave Gyratory Compactor - SGC Using an Internal Angle Measuring Device", pgs. 1-4.	
	✓	"Troxler's Superpave Gyratory Compactor Operational Specifications", 02/01, pgs. 1-5.	
	✓	"Investigating Measurable Gmb Differences Among Gyratory Compacted Specimens", 05/01, pgs. 1-9.	
	✓	"FGWA Angle Kit Studies at Pine", pgs. 1-14.	
	✓	"Economic Impact Refining the Dynamic Internal Angle of the Superpave Gyratory Compactor", 1/29/03, pgs. 1-10.	
	✓	BUCHANAN, SHANE, M., et al., "Effect of Superpave Gyratory Compactor Type on Compacted Hot Mix Asphalt (HMA) Density", 01/7-11/01, pgs. 1-23.	
	✓	Pine Instrument Company, Report 2000-01, "Superpave Gyratory Compactors - Angle Sensitivity", 03/30/00, pgs. 1-9.	

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	✓	SCHIEBEL, BILL, "CDOT and Colorado Paving Industry's Action Plan to Address Recently Documented Issue with Compaction Angle...", 04/19/02, pgs. 1-16.	
	✓	"Model 3191 True Mold Angle Device for the Model 4141 Gyratory Compactor", pgs. 1-16.	
	✓	"Model 3190 True Mold Angle Device for the Model 4140 Gyratory Compactor", pgs. 1-20.	
		"Instruction Sheet SGC Load Simulator", 2003, pgs. 1-4, Pine Instrument Company.	
		"DAV2-Angle Measurement Without Mix", Test Quip Angle Validation Kit, pgs. 11-13, 36-41, Test Quip.	

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